Design and Construction Notes

- Unless otherwise specified, the roof shall be designed to carry a combined snow load wind load, plus dead load of 30 psf on the entire roof surface. In addition, the roof shall carry additional drifting and or sliding snow loads from adjacent It shall also be designed to withstand a uniform uplift of 16.64 psf under the entire roof.
- (Truss and stringer configuration shown in the drawings is for illustration purposes only.) prior the ordering the trusses and "PE" sealed shop drawings shall be supplied by the When trusses are used, shop drawings shall be provided to the Design Enginee Truss Plate Institute certified manufacture at the time of truss delivery.
- All nails used for structural connections shall be ring, spiral, or screw shank girder/header connections, knee braces, wye braces, etc. include girder/header to post connections, truss to post connections, truss to hardened nails full head size 16d or larger. Structural connections shall
- All nails used with pressure treated wood shall be ring, spiral, or screw shan hardened galvanized nails.
- Nails for general framing can be common, smooth nails. includes purlins, diagonal braces, lateral braces, etc. General framing
- Bolts, screws, or metal plate connectors may be used instead of nails. Such substitutions shall provide a connection of equal or greater strength and durability, according to the National Forest Products Association's (NFPA) National Design Specification.
- All wood in contact with the ground or manure shall be pressure treated as per American Preserver's Association Standard (posts shall be treated to 0.6 cca and all other shall be treated to 0.4 cca.)

Soild or laminated posts shall be Southern Pine No. 2—SR Grade or Douglas Fir-Larch

- 20.
- 21. Ventilation shall be provided at the ridge or through the openings in the end trusses Ventilation shall be provided to offer at least 2" of opening per 10' of building width
- 22. Roof gutters with downspouts, or dripline drains shall be installed with a non-erosive positive outlet, and shall meet the requirements of NRCS Conservation Practice
- The posts on the backwall do not need to extend to the trusses.
- Review all other details and specifications. Major building structural changes are necessary if the building sides are covered This design is for open sides only.

11. Put 1/2" thick expansion joint material between 6"x 8" posts and floor concrete

If rear wall is to be below original grade, continue side drain along back wall, do not have drainfill higher than floor slab.

If post embedment concrete is taken to the surface, isolate from floor concrete with tar paper and camber for positive drainage. Earth backfill to be placed in

if approved by the Engineer.

moisture content).

bending strength (as per NFPA Design Vaues for wood Construction) may be made

Yellow Pine or Douglas Fir-Larch No. 2 Grade (Surface dry, used at 19% maximum No. 1 Grade (Surface green, used at any condition). All other lumber shall be Southern

Substitution of other species and grades with equal or greater

- Battens, nailers, posts, and tongue and groove siding shall be treated as per America Wood — Preserver's Association standard.
- All concrete work shall be as per details. Minimum strength shall be 4,000 psi. Reinforcement and placement shall be as per NRCS construction specification 313
- 14. If expansion joints in the floor slab are more than 30' apart in either direction or liquid—tight conditions are required, a site specific joint design and details are needed
- End trusses shall be faced with 3/4" structural plywood, corrugated 29 gage galvanized lumber shall be protected or covered. steel roofing, an equivalent or bettter. In addition, all other exposed non-treated
- 16. Knee and Wye bracing are required for the posts and girders as shown. Knee and Wye bracing are required at all posts which extend to the trusses Wye bracing shall be installed AFTER all roof framing is complete. Permanent continuous lateral bracing is required. Continuous lateral bracing
- without using toenails. The ends of the braces must extend fully past the truss and allow a 2-nail connection

be installed with staggered side by side overlap connections (no butt to butt connections)

must

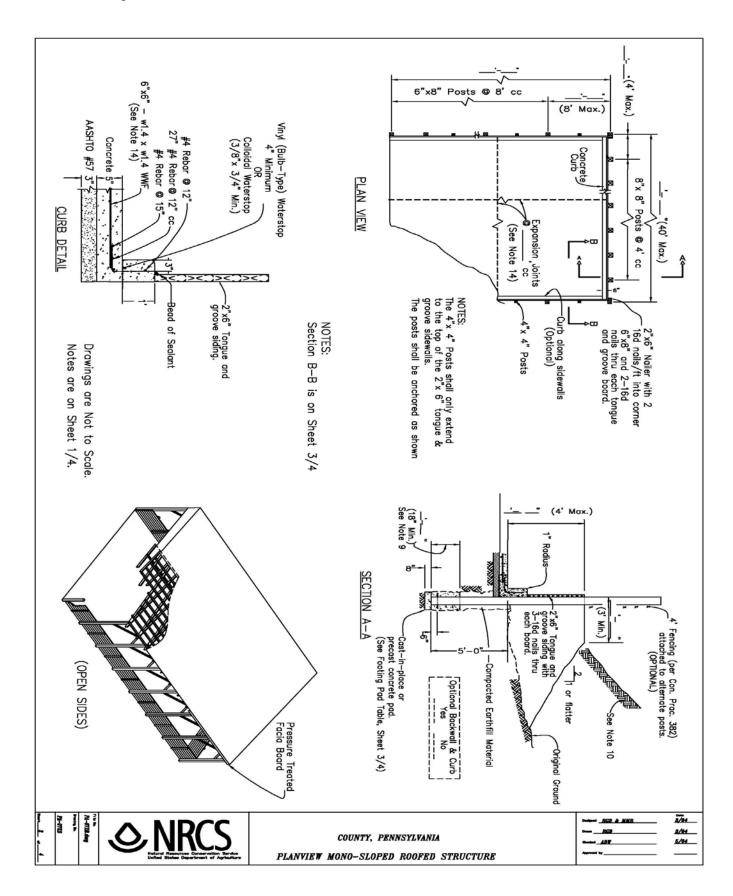
- Permanent diagonal bracing is required on the truss system.
 Permanent diagonal bracing is required at each end of the building and at intervals not to exceed 20 feet. All bracing shall be installed as per Truss Plate Institure HIB-98.
- a 9" spacing on the purlins 24" on center. Aluminum roofing shall have nominal Double stitch the seams of the roof edges. Typical aluminum roof shall have fasteners on Roof fasteners shall be a combination of zinc coated steel and neopreme washer thickness of 0.018 inches and coated steel of a 29 gauge minimum or better.
- Designers; the width of the 18" spaced purlins is equal to the width of the snow This width is equal to: $4\times$ [1.08 (cubed root of adjacent building width) 1.5]. This design accompadates the snow drift from an adjacent building 40' wide. drift
- 23. All final cut/fill surfaces shall be graded to direct surface water away from the

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Designed RCD & MMR	
RCD	
Approved by	
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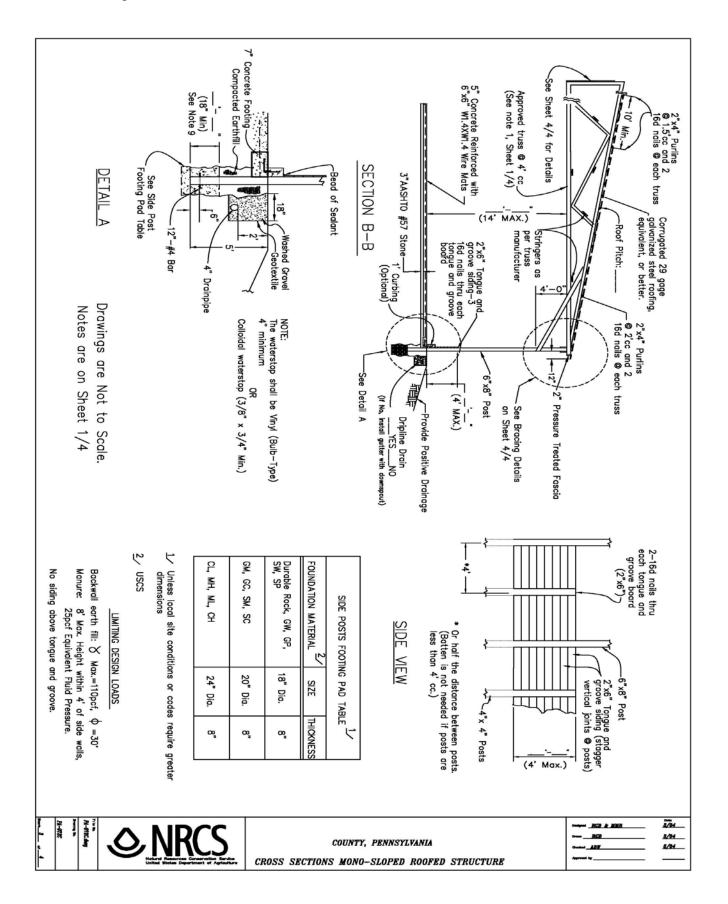
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